ABSTRACT OF THE DISCLOSURE

An apparatus and process for determining the absolute angular position of a rotating component. One or more linear position sensors, such as, for example, a Hall-Effect sensor, are placed near a degrading surface of a shaft or other rotating component. The rotation of the shaft varies the air gap between the sensor and the degrading surface thereby generating signals than can be processed to determine various operating parameters of the rotating shaft or component such as the absolute angular position of the rotating shaft, the rotation speed of the shaft, and the acceleration of the rotating shaft.